

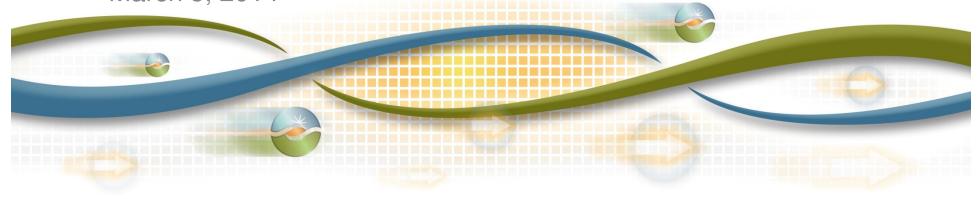
# 2015 and 2019 Draft LCR Study Results – Humboldt

Rajeev Annaluru

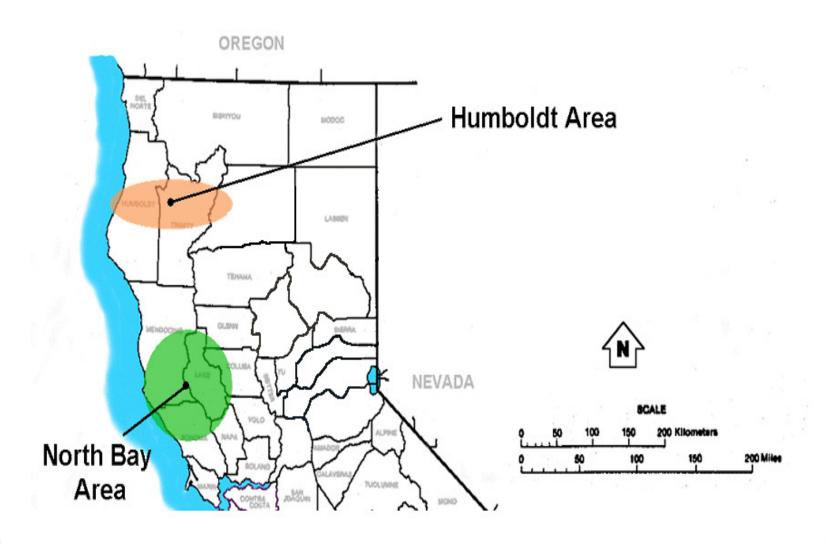
Senior Regional Transmission Engineer

Stakeholder Web Conference

March 5, 2014



## Humboldt Area



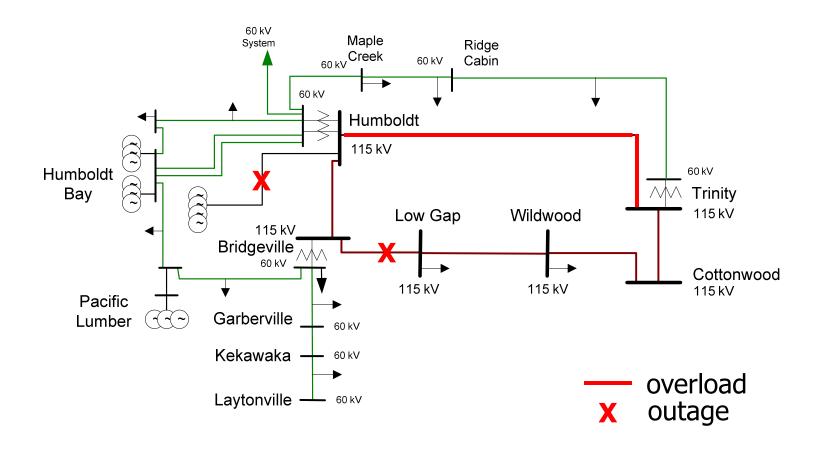


# Humboldt Load and Resources (MW)

		2015	2019
Load	=	186	194
Transmission Losses	=	9	10
Total Load	=	195	204
Market Generation	=	184	184
QF/Self-Gen Generation	=	55	55
Total Qualifying Capacity	=	239	239



# Critical Contingencies Humboldt Area





## Critical Contingencies Humboldt Area

#### **Humboldt Overall – Category B**

- Contingency: Cottonwood-Bridgeville 115 kV line + one Humboldt PP units out of service
- Limiting component: Thermal overload on Humboldt -Trinity 115 kV line
- 2015 LCR Need: 116 MW (including 55 MW of QF/Self generation)
- 2019 LCR Need: 123 MW (including 55 MW of QF/Self generation)

### **Humboldt Overall – Category C**

- Contingency: Cottonwood Bridgeville 115 kV line + 115 kV Gen tie to the Humboldt Bay Units
- <u>Limiting component:</u> Thermal overload on the Humboldt Trinity 115kV Line
- 2015 LCR need: 166 MW (including 55 MW of QF/Self generation)
- 2019 LCR need: 173 MW (including 55 MW of QF/Self generation)



# Changes

#### Since last year:

- Load + Losses for Humboldt remained the same in 2015 and went down by 4 MW in 2019
- 2) LCR decreased by 29 MW in 2015 compared to 2014
- 3) Long-Term LCR decreased by 24 MW in 2019 compared to 2018
- ISO will investigate if there are higher needs in the summer peak time due to lower emergency ratings

Your comments and questions are welcomed

Please send written comments to: RegionalTransmission@caiso.com

